OSY 2 Marks Questions

a) Define operating system.
b) List any four characteristics of an operating system.
c) Define time and space complexity.
d) What do you mean by spooling ?
e) List any 2 advantages and disadvantages of batch os.
f) What do you mean by Dalvik virtual machine ?
g) Enlist any 4 system calls related with process management.
h) Define task scheduler and performance monitor.
i) Define process & program.
j) Define process scheduling.
k) Describe shared memory and message passing.
l) What do you mean by user level and kernel level threads.
m) What is the use of ps command ?
n) What do you mean by preemptive and non-preemptive scheduling ?
o) What do you mean by cpu scheduler ?
p) List any two advantages & disadvantages of fcfs.
q) List out any 4 functions of memory management.
r) What do you mean by Internal and External fragmentation.
s) Define file with its attributes.
t) Define file and directory.
u) What is the concept of paging ?

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OSY 4 Marks Questions

a) Explain OS as a resource management.
b) Describe dual mode operation.
c) Explain system view and user view with the help of an example.
d) Difference between multi-processing. and multi-programming.
e) Explain symmetric and asymmetric os.
f) Difference between client-server and peer-to-peer model.
g) Describe command line Os. Also state any two difference between UNIX and DOS.
h) Describe services of operating system.
i) Explain system calls with the help of a diagram.
j) List out types of system calls and explain process management system call.
k) List general methods used to pass parameters in system calls.
l) Explain process with its memory layout.
m) Explain process states with the help of a diagram.
n) Difference between long term and short term scheduler.
o) Describe how context switching is executed by operating system.
p) What is inter-process communication ? Explain any one technique of it.
q) Difference between user level and kernel level thread
r) What do you mean by threads ? State the major advantages of thread.
s) What are the benefits of multi threading ?
t) Define the following : Turn around time , burst time , waiting time , response time and throughput
u) Describe CPU & I/O burst cycle with the help of a diagram.
v) List out any 4 scheduling algorithms . Explain FCFS.
w) Explain round robin algorithm .
x) Describe the prevention conditions for deadlock .
y) Explain swapping in operating system with diagram and example.
z) Difference between contiguous and non-contiguous memory allocation.

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Explain priority scheduling. Also find out the average waiting time for the given problem.

Process	Burst time	Priority
P1	10	3
P2	1	1
P3	2	3
P4	1	4
P5	5	2

Find out the average waiting time for the given problem using SJF & Round robin.

Process	Burst time
P1	10
P2	3
P3	7
P4	5

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OSY 6 Marks Questions

a) Explain batch operating system with the help of a diagram.
b) Explain time sharing operating system.
c) Explain multi programming os.
d) Explain distributed os in details.
e) Explain android architecture.
f) Explain real time os with its types.
g) List and explain components of an operating system.
h) Explain process control block with the help of a neat labeled diagram.
i) Explain schedulers with its following types.
j) Explain thread life cycle with a neat labeled diagram.
k) Explain multi-threading models.
l) With neat diagram explain multi level queue scheduling .
m) Explain deadlock with the help of a diagram.
n) Explain bankers algorithm.
o) Explain fixed portioning with the help of an example.
p) Explain variable portioning with the help of an example.
q) Explain the concept of virtual memory with the help of a diagram.
r) Explain paging with advantages and disadvantages.
s) Explain different file operations with the help of an example.
t) Explain sequential and direct access method.
u) Explain linked allocation with the help of a diagram.
v) Explain tree level structure.
w) Explain RAID levels.

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